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Declassification Review by NGA/DoD

PRIORITY

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SUBJECT: CAMERA INFORMATION FOR MISSION 1025-1.

1. THIS PHOTOGRAPHY INVOLVES THE USE OF EIGHT CAMERAS: TWO MAIN CAMERAS, FOUR HORIZON CAMERAS, A STELLAR CAMERA, AND AN INDEX CAMERA.

2. CAMERA DATA

	FORWARD	AFT	STAR HOR	PORT HOR	STELLAR	INDEX
FOCAL LENGTH (MM)	609.602	609.602	FWD54.670 AFT54.010	FWD54.830 AFT54.490	(1)84.0955 (2)84.0464	(1)38.2921 (2)38.2153
FILTER (WRATTEN NUMBER)	21	21	25	25	NONE	21
APERTURE	F3.5	F3.5	F6.8	F8.0	F1.8	F4.5
SLIT WIDTH (IN.) EXPOSURE (SEC.)	.175	.175	1/100	1/100	2.0	1/500
FILM	3404	3404	3404	3404	3401	3400

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RESOLUTION

(L/MM)	175	183	FWD 151	FWD 134	(1) 77
			AFT 134	AFT 147	(2) 71

NOTE: NUMBERS (1) AND (2) UNDER STELLAR AND INDEX HEADINGS REFER TO PART-1 AND PART-2 OF THE MISSION.

3. LENS DISTORTION (PIN CUSHION) MM

A. MAIN LENS	3	2	1	0	359	358	357
FWD UNIT	.007	.005	.003	.000	.000	.002	.005
AFT UNIT	.004	.003	.000	.000	.000	.002	.004

B. HORIZON CAMERAS (MM)	FWD		AFT	
	PORT	STARBOARD	PORT	STARBOARD
(RADIAL) 10 DEGREES	.001	.002	.001	.002
20 DEGREES	.004	.002	.002	.002
(TANGENTIAL) MAX VECTOR	.004	.003	.003	.004

4. CAMERA ANGLES

		DEGREES	MINUTES
A. ANGLE BETWEEN MAIN CAMERAS		29	46.85
B. ANGLE BETWEEN STELLAR AND INDEX CAMERAS	PART (1)	90	06
	PART (2)	90	06
C. DEPRESSION ANGLE BETWEEN HORIZON AND MAIN CAMERAS	FWD STARBOARD	15	47
	FWD PORT	14	42
	AFT STARBOARD	15	49
	AFT PORT	15	40

5. TIMING MARKS

FREQUENCY MARKS WILL APPEAR ON THE FILM AT A RATE OF 200

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CYCLES PER SECOND.

6. IMAGE MOTION COMPENSATION DATA (CYCLE RATE (CPS), GROUND ANGULAR VELOCITY (GAV) IN RAD/SEC, AND PASSES WHERE USED).

REF. LEVEL		AMPL. LEVEL		PASSES
NO.	CPS. GAV.	NO.	CPS. GAV.	
7	.3371 .0305	7	.0636 .0058	1D1 THRU 79D1

7. PROGRAM TIME DATA

PASS	CAMERA ON TIME (ZEBRA TIME)				PROGRAM ON TIME UP RAMP	PROGRAM DURATION
	DAY	HOUR	MIN	SEC	SEC	SEC
1D1	05	19	14	13	1334	38
5D1	06	01	11	00	1210	126
5D2	06	01	15	15	1465	49
5D3	06	01	27	20	2190	69
7D1	06	04	19	20	1740	175
8D1	06	05	37	35	1247	106
8D2	06	05	39	55	1387	76
9AE	06	06	51	52	314	47
9D1	06	07	19	52	1995	50
10D1	06	08	48	52	1949	50
10D2	06	08	50	08	2025	156
11D1	06	10	19	40	2013	157

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13D1	06	13	28	47	2592	174
14D1	06	14	51	59	2200	111
14D2	06	14	59	02	2622	99
16D1	06	17	45	08	1819	38
20D1	06	23	38	23	1478	105
20D2	06	23	41	01	1636	92
21D1	07	01	08	09	1479	56
21D2	07	01	11	11	1661	69
22D1	07	02	32	52	1179	57
22D2	07	02	38	13	1500	79
22D3	07	02	42	48	1775	98
22D4	07	02	47	10	2037	88
23D1	07	04	11	47	1729	45
23D2	07	04	14	22	1884	52
23D3	07	04	15	39	1962	66
23D4	07	04	17	56	2098	65
24D1	07	05	40	14	1651	45
25D1	07	07	17	47	2120	64
25D2	07	07	21	17	2330	111
26D1	07	08	47	07	2096	200

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27D1	07	10	17	02	2103	186
31D1	07	16	11	00	1810	44
32D1	07	17	41	28	1854	38
33D1	07	19	03	27	1389	49
34D1	07	20	33	23	1401	110
37D1	08	01	08	19	1694	69
37D2	08	01	11	43	1899	67
39D1	08	04	09	51	1819	67
39D2	08	04	11	40	1928	202
40D1	08	05	42	33	2051	43
40D2	08	05	44	04	2142	51
41D1	08	07	13	10	2105	186
43D1	08	10	11	09	2017	66
43D2	08	10	12	57	2125	66
47D1	08	16	11	44	2120	64
51D1	08	21	58	32	1385	238
52D1	08	23	31	29	1578	105
53D1	09	00	55	45	1252	65
53D2	09	01	04	17	1763	100
53D3	09	01	07	26	1952	97
54D1	09	02	30	43	1567	130
54D2	09	02	36	01	1885	51
55D1	09	03	57	31	1391	201
55D2	09	04	02	02	1662	46
55D3	09	04	10	25	2165	172

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56D1	09	05	32	27	1720	51
56D2	09	05	40	26	2199	43
57D1	09	07	17	27	2638	113
63D1	09	16	04	38	1977	44
63D2	09	16	07	49	2169	65
66D1	09	20	24	38	1432	113
68D1	09	23	22	40	1348	63
68D2	09	23	25	40	1529	55
68D3	09	23	43	18	2586	99
69D1	10	00	50	30	1236	64
69D2	10	01	16	34	2800	209
70D1	10	02	28	44	1748	171
70D2	10	02	41	00	2485	97
71D1	10	03	59	09	1791	52
71D2	10	04	03	27	2049	126
71D3	10	04	07	14	2276	126
72D1	10	05	26	20	1640	292
73D1	10	07	06	42	2280	187
73D2	10	07	12	29	2626	98
75D1	10	10	04	16	2171	118
78D1	10	14	29	14	1926	41
78D2	10	14	39	06	2517	218
79D1	10	16	00	33	2024	40

NOTE: DATA IS THE SAME FOR BOTH THE MASTER (FWD AND SLAVE (AFT) UNITS.

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8. TIME CORRELATION (MILLISECONDS)

PASS	CLOCK TIME	SYSTEM TIME	DIFFERENCE
0	380393.179	64392.8712	----
9	427096.212	24695.8956	.009
16	466390.233	63989.9094	.007
25	513278.615	24478.2829	.008
32	15700.381	63770.9539	.006
41	62582.118	24252.6827	.008
47	96479.771	58150.3298	.006
57	148742.427	24012.9768	.009
63	182672.833	57943.3770	.006
72	229504.345	18374.8812	.008
79	268817.983	57688.5127	.006

NOTE: ALL "DIFFERENCE" VALUES ARE PLUS.

9. REMARKS

A. S/I UNIT - PART 1 D-73/78/88

PART 2 D-70/88/81

T O P S E C R E T

/END OF MESSAGE/

(ABOVE MESSAGE ALSO PASSED [ ]

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